DISTRIBUTED PROCESSING OF SEARCH RESULTS IN AN ELECTRONIC COMMERCE SYSTEM
Inventor(s): Manoel (nmi) Tenorio
Attorney's Docket: 020431.0846
Sheet: 1 of 4
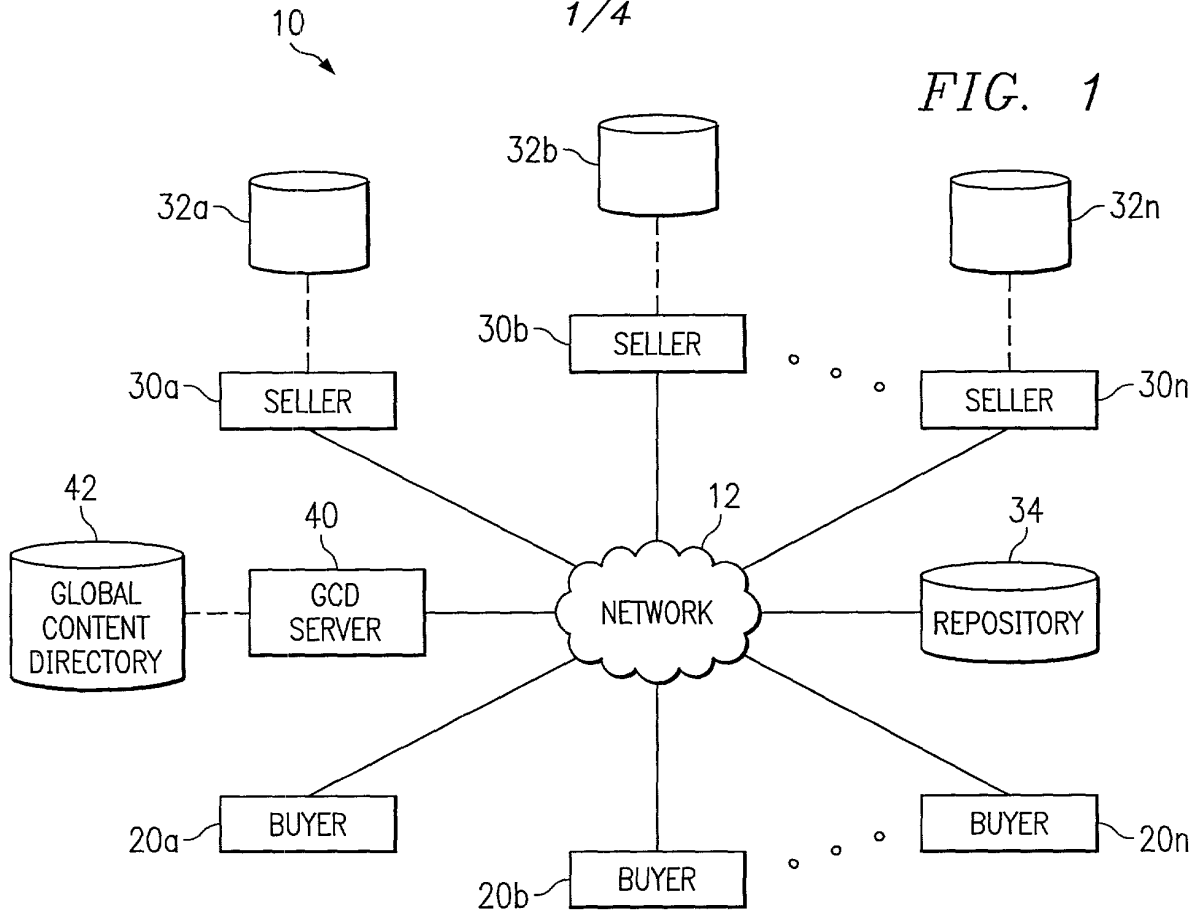
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FIG. 1

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FIG. 4

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FIG. 2

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- 📁 Global Content Directory
  - 📂 Industry Standard Schemas — 46
    - 📂 Direct Material — 48
      - 📁 Automotive
      - 📁 Electronics — 64
      - 📁 Industrial
      - 📁 Aviation
        ⋮
      - 📁 Food Products
    - 📂 Indirect Material — 50
      - 📁 MRO Equipment
      - 📂 Office and Computer Supplies — 52
        - 📁 Computer Equipment
        - 📁 Other Electronic Equipment
        - 📂 Desk Supplies — 54
          - 📂 Writing Utensils — 56
            - 📁 Pencils
            - 📂 Pens — 58
              - 📁 Ball-Point — 60a
              - 📁 Felt-Tip — 60b
              - 📁 Rollerball — 60c
                ⋮
              - 📁 Calligraphy — 60n
            - 📁 Markers
              ⋮
            - 📁 Chalk
          - 📁 Fasteners
          - 📁 Paper
            ⋮
          - 📁 Tape
        - 📁 Furniture
          ⋮
        - 📁 Filing Systems
    - 📁 Oil and Gas
    - 📁 Raw Materials
    - 📁 Telecom
      ⋮
    - 📁 Utilities
  - 📂 Other Schemas
    ⋮   } 62
  - 📂 Other Schemas

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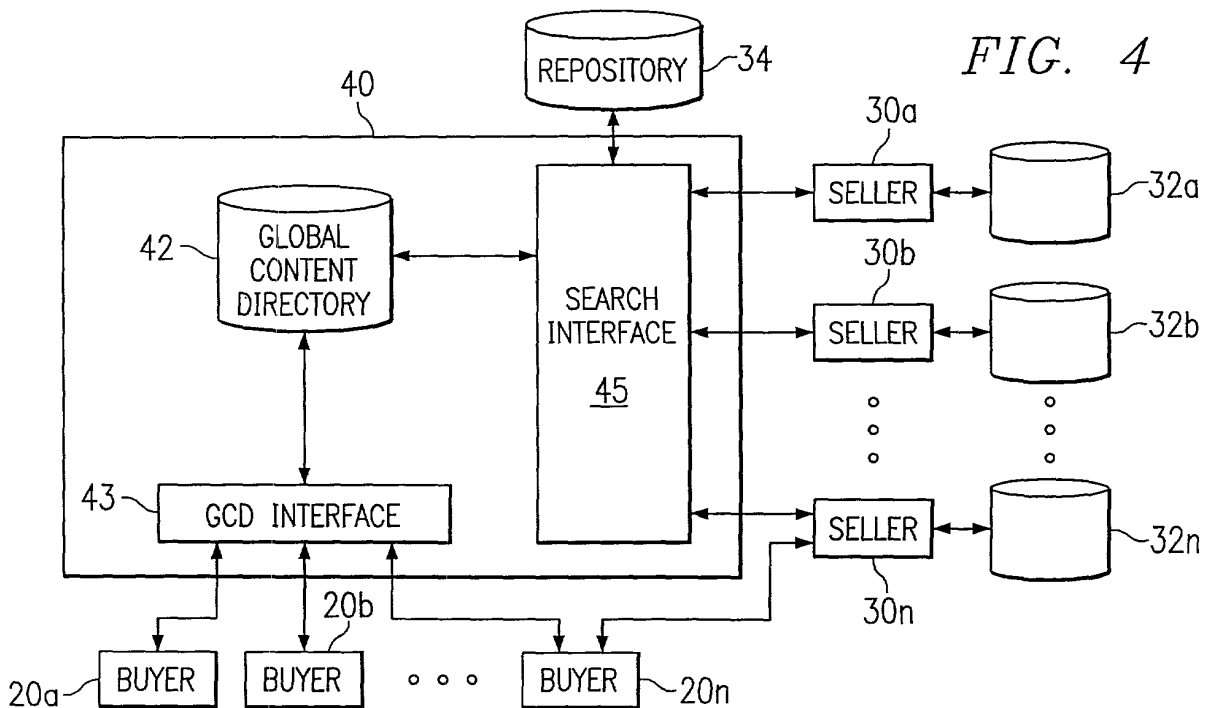Attorney's Docket: 020431.0846
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FIG. 3

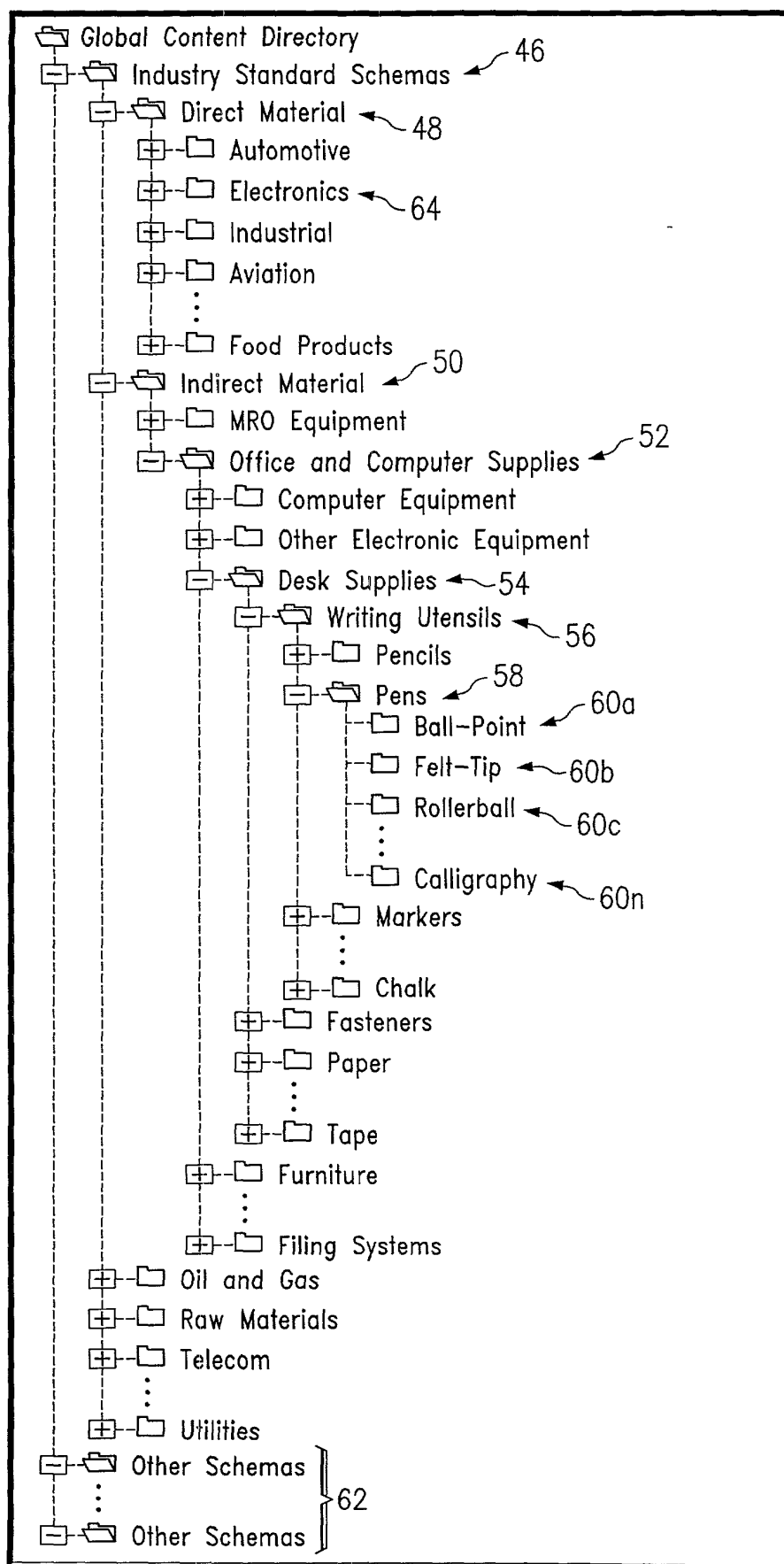150 ⟋

PID	PRODUCT TYPE	MANUFACTURER	INK COLOR	TIP SIZE	...	PRICE
23	BALL POINT	ABC	BLUE	MEDIUM	...	0.12
29	BALL POINT	ABC	BLACK	MEDIUM	...	0.12
56	BALL POINT	XYZ	BLACK	MEDIUM	...	0.13
98	BALL POINT	XYZ	GREEN	MEDIUM	...	0.13
• • •	• • •	• • •	• • •	• • •	• • •	• • •
12	FELT TIP	XYZ	BLACK	BROAD	...	0.17
16	FELT TIP	ABC	BLACK	BROAD	...	0.18
56	FELT TIP	ABC	RED	FINE	...	0.16
123	FELT TIP	XYZ	RED	FINE	...	0.16
• • •	• • •	• • •	• • •	• • •	• • •	• • •
2	ROLLER BALL	XYZ	BLUE	FINE	...	0.25
59	ROLLER BALL	XYZ	BLACK	FINE	...	0.25
143	ROLLER BALL	XYZ	BLACK	MEDIUM	...	0.22
456	ROLLER BALL	ABC	RED	EXTRA FINE	...	0.29
• • •	• • •	• • •	• • •	• • •	• • •	• • •

152a 152b 152c 152d 152e 152n

154

156

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START

FIG. 5

102 — COMMUNICATE SEARCH QUERY AND SORTING PARAMETERS TO MULTIPLE DATABASES

104 — RECEIVE SEARCH QUERY AND SORTING PARAMETERS AT A DATABASE

106 — RETRIEVE MATCHING PRODUCT DATA FROM DATABASE AS LOCAL SEARCH RESULTS

108 — SORT LOCAL SEARCH RESULTS ACCORDING TO SORTING PARAMETERS

110 — COMMUNICATE SOME OR ALL OF THE SORTED LOCAL SEARCH RESULTS TO GCD SERVER

128 — COMMUNICATE ADDITIONAL SORTED LOCAL SEARCH RESULTS TO GCD SERVER

112 — MERGE LOCAL SORTED SEARCH RESULTS FROM MULTIPLE DATABASES

114 — SORT MERGED SEARCH RESULTS

116 — COMMUNICATE SOME OR ALL OF SORTED MERGED SEARCH RESULTS TO BUYER

118 — BUYER REQUEST FOR ADDITIONAL SEARCH RESULTS?
— NO → **END**
— YES ↓

124 — REQUEST ADDITIONAL LOCAL SEARCH RESULTS FROM SELLER DATABASES

120 — REMAINING MERGED SEARCH RESULTS TO BE COMMUNICATED TO BUYER ?
— NO →
— YES ↓

126 — REMAINING LOCAL SEARCH RESULTS?
— YES
— NO ↓

122 — COMMUNICATE ADDITIONAL SORTED MERGED SEARCH RESULTS TO BUYER

COMMUNICATE LACK OF ADDITIONAL SEARCH RESULTS TO BUYER

END 130